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Notice of Allowability

Application No.

09/863,550

Examiner

Khanh Dinh

Applicant(s)

ZHU, MICHAEL

Art Unit

2151

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/1/2005.
2. ☒ The allowed claim(s) is/are 1-5, 7-12 and 14-20.
3. ☒ The drawings filed on 5/22/2001 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. This is in response to the Amendment filed on 7/1/2005. Claims 6 and 13 are canceled. Claims 1-5, 7-12, 14-20 are presented for examination.
2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Justin Boyce (the Undersigned Attorney, Reg. No.40,920) on 7/28/2005.

The application has been amended as follows:

IN THE CLAIMS:

Please **amend** claims 1, 10 and 18 as follows:

In claim 1: line 8, after the phrase "between the cached copies and", please **delete** "the".

In claim 10: line 22, after the phrase "between the tagged cached copy and", please **delete** "the".

In claim 18: line 2, word 1, please **delete** "or a propagated carrier signal,".

In claim 18: line 18, after the phrase "act of labeling;", please **delete** "and".

In claim 18: line 23, after the phrase "between the tagged cached copy and", please **delete** "the".

Reason for allowance

3. Claims 1-5, 7-12, 14-20 are allowed.

The above mention claims are allowable over the prior art of record does not appear to each or render obvious the claimed limitations in combination with the specific added limitations as recited in independent claims and subsequent dependent claims. None of the cited prior art discloses or teaches a system for caching of data for a plurality of clients coupled to at least one data source with data resources comprising a combination of: at least one cache module coupled to a selected clients and a coherency management module, the at least one cache module including a first cache module coupled to a first set of selected clients among the plurality of clients and a second cache module coupled to a second set of selected clients among the plurality of clients. Moreover, the coherency management module further comprises: a logger to maintain a log table which correlates the first cache module with the URLs requested by the first set of selected clients and the second cache module with the URL's requested by the second set of selected clients; a signature generator to generate a digital signature for each data resource copy supplied by the at least one data source in response to requests by the first and the second sets of selected clients; a signature cache to cache the digital signatures generated by the signature generator along with corresponding URLs, and to tag with the stale tag each URL for which successive digital signatures for the corresponding data resource differ from one another, and an updater to send update messages to a corresponding one of the first and second cache nodule

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associate with URLs in the log table for which the corresponding signature in the signature cache includes the stale tag and the updater to remove the corresponding stale tags from the signature cache upon sending the update messages.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh Dinh whose telephone number is (571) 272-3936. The examiner can normally be reached on Monday through Friday from 8:00 A.m. to 5:00 P.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung, can be reached on (571) 272-3939. The fax phone number for this group is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Khanh Dinh
Patent Examiner
Art Unit 2151
8/1/2005